

AMENDMENTS TO THE CLAIMS

Claim 1 (Amended): A method for manufacturing an organic film ~~for organic light emitting diodes, the organic film having areas with modified properties, comprising the steps of:~~

providing an organic host material disposed over a substrate;
coating an organic material thereon to form an organic film; and
applying a dopant to areas of the film to modify the properties of the film in desired areas dissolved in a solvent onto the organic host material, such that the solvent causes the dopant to diffuse into the organic host material.

Claim 2 (Original): The method of claim 1 wherein the dopant is applied by application of liquid droplets.

Claim 3 (Original): The method of claim 2 wherein the liquid droplets are applied by ink-jet printing.

Claim 4 (Canceled)

Claim 5 (Original): The method of claim 1 wherein the dopant is applied by screen printing.

Claim 6 (Amended): The method of claim 1 wherein the dopant modifies the light emitting properties of the organic film host material.

Claim 7 (Original): The method of claim 6 wherein the dopant comprises red, green or blue dyes.

Claim 8 (Original): The method of claim 7 wherein the dopant includes coumarin and nile red.

Claim 9 (Amended): A method of manufacturing ~~a locally modified an~~ organic film device comprising the steps of:

providing a substrate,

providing a first electrode disposed on the substrate;
applying an organic coating having a dopant over the first electrode; and
removing the dopant from areas of the coating;
depositing a second electrode over the organic coating.

Claim 10 (original): The method of claim 9 wherein the dopant is removed from the coating by a solvent applied to the surface of the coating.

Claim 11 (amended): The method of claim 9 wherein the dopant is removed from the coating by annealing which caused causes the dopant to migrate from the coating.

Claim 12 (original): The method of claim 10 wherein a mask is patterned on the coating prior to applying the solvent to remove the dopant in a pattern.

Claim 13 (original): The method of claim 11 wherein a mask is patterned on the coating prior to annealing to remove the dopant in a pattern.

Claim 14 (amended): The method of claim 10 wherein the solvent is applied in a pattern onto the coating to remove the dopant in a pattern.

Claim 15 (amended): A method of manufacturing ~~a locally modified organic film~~ ~~a device~~, comprising:
providing a substrate;
providing a first electrode disposed over the substrate;
providing a first layer having a dopant disposed over the first electrode;
providing a second layer on the first layer, wherein the second layer is organic; and
transferring the dopant from the first layer to the second organic layer;
depositing a second electrode over the second layer.

Claim 16 (amended): The method of claim 15 wherein the dopant is transferred in ~~selected areas~~
a pattern from the first layer to the second ~~organic~~ layer.

Claim 17 (amended): The method of claim 16 wherein masking means is provided on the first layer prior to providing the second ~~organic~~ layer, and the dopant is transferred from the first layer to the ~~organic~~ second layer in areas not masked.

Claim 18 (amended): The method of claim 16 wherein the first layer with the dopant is patterned on a substrate, and the dopant is transferred to the second layer in the pattern of the first layer.

Claim 19 (amended): A method of manufacturing ~~a locally modified~~ an organic film comprising of:
providing a first layer of material;
applying a dopant in a pattern to the first layer such that the first layer contains the dopant;
providing a second layer comprising an organic material; and
transferring the dopant from the first layer to the second layer in the pattern.

Claim 20 (original): The method of claim 19 wherein the dopant is applied by application of liquid droplets.

Claim 21 (original): The method of claim 20 wherein the liquid droplets are applied by ink-jet printing.

Claim 22 (canceled)

Claim 23 (original): The method of claim 19 wherein the dopant is applied by screen printing.

Claim 24 (original): The method of claim 19 wherein the dopant modifies the light emitting properties of the organic film.

Claim 25 (original): The method of claim 24 wherein the dopant comprises red, green or blue dyes.

Claim 26 (original): The method of claim 25 wherein the dopant includes coumarin and nile red.

Claim 27 (original): The method of claim 19 wherein the dopant is transferred by annealing.

Claim 28 (amended): A method of manufacturing ~~locally modifying properties of~~ an organic film for an OLED comprising the steps of:
providing a substrate;
applying an organic coating thereon ~~over the substrate~~;
depositing a dopant or material containing a dopant thereon ~~onto the~~
organic coating; and
using a solvent to cause ~~causing~~ the dopant to migrate into the organic coating.

Claim 29 (original): The method of claim 28 wherein the dopant is applied to the organic coating in a pattern, and the dopant forms the pattern in the organic layer after the dopant migrates thereinto.

Claim 30 (original): The method of claim 29 wherein the dopant is applied by liquid droplet application.

Claim 31 (amended): The method of claim 30 wherein liquid droplets are applied by ink jet printing.

Claim 32-35 (canceled)

Claim 36 A method of manufacturing ~~a locally modified~~ an organic film comprising
~~the steps of:~~
providing an organic film layer;
covering the organic layer with a patterned barrier;
applying a dopant or material containing a dopant over the organic layer
and the barrier; and
causing the dopant to migrate into the organic film layer in areas exposed
through the barrier through the use of a solvent.

Claim 37 (new): The method of claim 1, wherein the solvent is acetone.

Claim 38 (new): The method of claim 37, wherein the organic host material is poly(9-vinylcarbazole).

Claim 39 (new): The method of claim 1, wherein the solvent is trichloroethylene.

Claim 40 (new): The method of claim 39, wherein the organic host material is poly(9-vinylcarbazole).